



00862.022245

PATENT APPLICATION

3627
JPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
	:	Examiner: A. J. Fischer
RIKIO SHIBA ET AL.)	
	:	Group Art Unit: 3627
Appln. No.: 09/975,968)	
	:	
Filed: October 15, 2001)	
	:	
For: COLLECTING METHOD BY)	
INFORMATION PROCESSOR, AND	:	
ORDERING METHOD OR SALE)	
METHOD	:	June 14, 2004

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

SUBMISSION OF SWORN TRANSLATIONS OF PRIORITY APPLICATIONS

Sir:

Further to the Amendment timely filed in the Patent and Trademark Office on May 13, 2004, Applicants submit herewith sworn English translations of Japanese Application 2000-035938, filed on February 14, 2000, and Japanese Application 2000-035937, filed on February 14, 2000, from which the present application claims priority.^{1/} The filing of these sworn translations removes U.S. Patent No. 5,978,774 (*Hastings et al.*) and U.S. Patent Publication 200/0002492 A1 (*Okazawa*), which have filing dates of April 29, 2000, and May 10, 2001, respectively, as prior art against the Claims 1, 3, 4, 41, and 54-58.

^{1/} A Declaration stating that the English translations of Japanese Application Nos. 2000-035938 and 2000-035937 are accurate is submitted herewith.

All of the pending claims are believed to be patentable for the reasons given in the Remarks section of the Amendment filed on May 13, 2004. Accordingly, Applicants respectfully request favorable reconsideration and early passage to issue of the present application.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our below listed address.

Respectfully submitted,


Attorney for Applicants

Registration No. 29,296

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
New York, New York 10112-3801
Facsimile: (212) 218-2200



09/975.968

DECLARATION

I, Toshiaki Sato, residing at 7th Fl., Shuwa Kioicho Park Bldg., 3-6, Kioicho, Chiyoda-ku, Tokyo 102-0094, Japan, hereby declare that I have a thorough knowledge of Japanese and English languages, and that the attached pages contain correct translations into English of the application documents of Japanese Patent Application Nos. 2000-035937 filed on February 14, 2000 and 2000-035938 filed on February 14, 2000 in the name of CANON KABUSHIKI KAISHA.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made, are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signed this 9th day of June, 2004.

Toshiaki Sato

09/975968

Translation of Japanese Patent Application No. 2000-035938

[Type of Document(s)]	Application for patent
[Reference Number]	4172030
[Filing Date]	February 14, 2000
[Addressee]	Director-General of the Patent Office Esq.
[International Patent Classification]	G06F 9/00
[Title of Invention]	ORDERING METHOD AND SALES METHOD OF OFFICE CONSUMABLES, SALES SYSTEM AND PROGRAM THEREFOR, AND MEDIUM
[Number of Claim(s)]	25
[Inventor(s)]	
[Address/Domicile]	c/o CANON KABUSHIKI KAISHA, 3-30-2, Shimomaruko, Ohta-ku, Tokyo, Japan
[Name]	Rikio Shiba
[Inventor(s)]	
[Address/Domicile]	c/o CANON KABUSHIKI KAISHA, 3-30-2, Shimomaruko, Ohta-ku, Tokyo, Japan
[Name]	Yukihiko Shimizu
[Inventor(s)]	
[Address/Domicile]	c/o CANON KABUSHIKI KAISHA, 3-30-2, Shimomaruko, Ohta-ku, Tokyo, Japan
[Name]	Takayuki Nagatsuka
[Applicant for Patent]	
[Identification Number]	000001007
[Name]	CANON KABUSHIKI KAISHA
[Agent]	
[Identification Number]	100076428
[Patent Attorney]	
[Name]	Yasunori Ohtsuka
[Telephone Number]	03-5276-3241
[Selected Agent]	
[Identification Number]	100101306
[Patent Attorney]	
[Name]	Yukio Maruyama
[Telephone Number]	03-5276-3241

[Selected Agent]

[Identification Number]	100115071
[Patent Attorney]	
[Name]	Yasuhiro Ohtsuka
[Telephone Number]	03-5276-3241

[Detail of Fee(s)]

[Register Number of Prepayment]	003458
[Amount of Payment]	21000

[List of Attached Documents]

[Classification]	Specification	1
[Classification]	Drawing(s)	1
[Classification]	Abstract	1

[Number of General Power of Attorney]	0001010
--	---------

[Proof Required? Y/N]	Yes
-----------------------	-----

[Type of the Document] Specification

[Title of the Invention] ORDERING METHOD AND SALES
METHOD OF OFFICE CONSUMABLES,
SALES SYSTEM AND PROGRAM
THEREFOR, AND MEDIUM

5

[What Is Claimed Is:]

[Claim 1] An ordering method for logging-in to a
designated server and ordering desired office
consumables according to an ordering screen supplied by
10 the server,

characterized in that the ordering screen
contains a list of office consumables compatible with
equipment used by an orderer.

[Claim 2] The ordering method according to claim
15 1, characterized in that the ordering screen further
contains price information corresponding to the listed
office consumables and the orderer.

[Claim 3] The ordering method according to claim
1 or 2, characterized in that the ordering screen is
20 generated based on databases which record at least the
orderer, equipment used by the orderer, office
consumables compatible with the equipment, and price
information corresponding to the office consumables and
the orderer.

25 [Claim 4] The ordering method according to any
one of claims 1 to 3, characterized in that the orderer
accesses the server via an Internet.

[Claim 5] The ordering method according to any one of claims 1 to 4, characterized in that the office consumables comprise a toner or ink.

[Claim 6] A sales method which supplies an
5 ordering screen for a logged-in user and allows a user to order desired office consumables according to the ordering screen,

characterized in that the ordering screen contains a list of office consumables compatible with
10 equipment used by the user.

[Claim 7] The sales method according to claim 6, characterized in that the ordering screen further contains price information corresponding to the listed office consumables and the user.

15 [Claim 8] The sales method according to claim 6 or 7, characterized in that the ordering screen is generated based on databases which record at least the user, equipment used by the user, office consumables compatible with the equipment, and price information
20 corresponding to the office consumables and the user.

[Claim 9] The sales method according to any one of claims 6 to 8, characterized in that an Internet is used for the processes of logging-in, supplying the ordering screen, and placing orders.

25 [Claim 10] The circulation method according to any one of claims 6 to 9, characterized in that the office consumables comprise a toner or ink.

[Claim 11] A sales system which has log-in means for making a user who intends to order office consumables log-in, supply means for supplying an ordering screen for the logged-in user, and a reception
5 means for receiving order information which is based on the ordering screen,

characterized in that the supply means supplies the user an ordering screen which contains a list of office consumables compatible with the equipment used
10 by the user.

[Claim 12] The sales system according to claim 11, characterized in that the supply means supplies the user an ordering screen which further contains price information corresponding to the listed office
15 consumables and the user.

[Claim 13] The sales system according to claim 11 or 12, characterized in that the supply means generates the ordering screen based on databases which record at least the user, equipment used by the user,
20 office consumables compatible with the equipment, and price information corresponding to the office consumables and the user.

[Claim 14] The sales system according to any one of claims 11 to 13, characterized in that the user
25 accesses the sales system via an Internet.

[Claim 15] The sales system according to any one of claims 11 to 14, characterized in that the office

consumables comprise a toner or ink.

[Claim 16] A program for implementing a sales system which makes a user who intends to order office consumables log-in, supplies an ordering screen for the
5 logged-in user, and receives order information which is based on the ordering screen, characterized by having a step of supplying the user an ordering screen which contains a list of the office consumables compatible with equipment used by the user.

10 [Claim 17] The program according to claim 16, characterized by further having a step of supplying the user an ordering screen which contains price information corresponding to the listed office consumables and the user.

15 [Claim 18] The program according to claim 16 or 17, characterized by having a step of generating the ordering screen based on databases which record at least the user, equipment used by the user, office consumables compatible with the equipment, and price
20 information corresponding to the office consumables and the user.

[Claim 19] The program according to any one of claims 16 to 18, characterized by having a step of connecting the user and sales system via an Internet.

25 [Claim 20] The program according to any one of claims 16 to 19, characterized in that the office consumables comprise a toner or ink.

[Claim 21] A medium having a program code of a sales system which makes a user who intends to order office consumables log-in, supplies an ordering screen for the logged-in user, and receives order information
5 which is based on the ordering screen,

characterized in that the program code has at least a code for a step of supplying the user an ordering screen which contains a list of office consumables compatible with the equipment used by the
10 user.

[Claim 22] The medium according to claim 21, characterized by further having a code for a step of supplying the user an ordering screen which contains price information corresponding to the listed office
15 consumables and the user.

[Claim 23] The medium according to claim 21 or 22, characterized in that the office consumables comprise a toner or ink.

[Claim 24] A medium having data for a sales
20 system which makes a user who intends to order office consumables log-in, supplies an ordering screen for the logged-in user, and receives order information which is based on the ordering screen, characterized by having at least the user, equipment used by the user, office
25 consumables compatible with the equipment, and price information corresponding to the office consumables and the user to generate the ordering screen.

[Claim 25] The medium according to claim 24, characterized in that the office consumables comprise a toner or ink.

[Detailed Description of the Invention]

5 [0001]

[Technical Field to Which the Invention Belongs]

The present invention relates to an ordering method and sales method of office consumables, a sales
10 system and program for the office consumables, and a medium. For example, the present invention relates to an ordering method and sales method of efficiently and effectively ordering and selling office consumables such as used toner cartridges, and a sales system.

15 [0002]

[Prior Art]

Printers, copiers, and facsimile machines using electrophotography are essential tools in conducting business. These electrophotography-based machines need
20 consumables such as toner. If they run out of consumables and are not replenished quickly, they will be rendered unusable. To avoid such situations, offices maintain proper inventory of consumables. Recently, there have been companies that create a post
25 called an IMS (Information Manager of System) to maintain proper inventory of consumables on a company-wide basis.

[0003]

Some electrophotography-based machines are supplied with toner by means of a cartridge called a toner cartridge. Each machine should be fitted with a toner cartridge according to its type. Printers generally require different toner cartridges if they differ in type although they are all printers. Therefore, offices and business places which use many types of machine must keep many types of toner cartridge in stock. Proper inventory levels must be maintained not only for toner cartridges, but also for all the office goods used in offices and business places. Hereinafter, commodities such as toner cartridges may be referred to as "office consumables." In addition to toner cartridges, office consumables include copier toners, photoconductive drums, ink-jet printer ink, other service parts, paper, OHP sheets, etc.

[0004]

Toner cartridges themselves are made of recyclable materials. In addition to containing toner, toner cartridges may be equipped with a mechanism for supplying toner to electrostatic latent images on the photoconductive drum or they may contain the photoconductive drum itself. Thus, in order to recycle such materials and parts, it is desirable that used toner cartridges be collected efficiently.

[0005]

There are certain demands concerning the sales style, inventory control, and recycling of office consumables with such characteristics:

5 [0006]

[Sales style]

With the widespread proliferation of the Internet, people wish to use an Internet in sales and ordering of office consumables. Although there are
10 already systems that sell goods using the Internet, it is not easy to correctly select and order office consumables compatible with the equipment used, from among a great variety of goods. Besides, the prices of goods listed by such sales systems do not deal with
15 each customer individually.

[0007]

[Inventory control]

Manufacturers and stores which supply and sell office consumables according to the equipment used
20 carry considerably large inventories of office consumables in their warehouses out of the necessity to provide office consumables to customers in a short period. However, due to a great variety of office consumables and difficulty of demand forecasting, it
25 cannot be said that proper inventory is maintained. Consequently, there are cases in which office consumables ordered by customers are out of stock while

geographically distant stores carry excessive inventory. In such cases, although it is possible to supply the customers the office consumables from stores with excessive inventory, it is quite impossible to
5 deliver them in a short period because the customers are located outside normal delivery areas. Thus, there is demand for inventory control which takes into consideration the great variety of office consumables and difficulty of demand forecasting.

10 [0008]

[Recycling]

In order to collect and recycle toner cartridges effectively, it is desirable that toner cartridge manufacturers and recyclers know what types of toner
15 cartridge will be returned, when and in what quantities. This allows manufacturers and recyclers to plan a collection and recycling schedule of used cartridges and collect and recycle the used cartridges efficiently at low costs according to the schedule.

20 [0009]

As things stand now, however, only the question as to whether to recycle toner cartridges is determined by users when the toner cartridges have been used, and thus a proper environment is yet to be established for
25 effective, low-cost collection and recycling. Besides, current collection methods of toner cartridges involve (1) stores or manufactures dispatching recovery

vehicles, (2) users taking toner cartridges to stores, or (3) users sending toner cartridges by packing them in special boxes, but all these methods are troublesome and costly.

5 [0010]

Under these circumstances, manufactures and recyclers that should play an important role in recycling are carrying out recycling activities passively, and recycling is actually supported by the efforts of users and stores. It seems that many used toner cartridges are discarded to avoid the labor and cost of collection. Thus, there is demand for a collection system which can reduce the labor and cost of collection.

15 [0011]

[Problems That the Invention Is to Solve]

The present invention intends to solve the above problems individually or collectively and its object is to centrally control circulation of office consumables.

20 [0012]

[Means of Solving the Problems]

As means for attaining this object, the present invention has the following arrangement.

[0013]

25 According to the present invention, there is provided an ordering method for logging-in to a designated server and ordering desired office

consumables according to an ordering screen supplied by the server, characterized in that the ordering screen contains a list of office consumables compatible with equipment used by an orderer.

5 [0014]

Preferably, the ordering method is characterized in that the ordering screen further contains price information corresponding to the listed office consumables and the orderer.

10 [0015]

According to the present invention, there is provided a sales method which supplies an ordering screen for a logged-in user and allows a user to order desired office consumables according to the ordering screen, characterized in that the ordering screen contains a list of office consumables compatible with equipment used by the user.

[0016]

Preferably, the sales method is characterized in that the ordering screen further contains price information corresponding to the listed office consumables and the user.

[0017]

According to the present invention, there is provided a sales system which has log-in means for making a user who intends to order office consumables log-in, supply means for supplying an ordering screen

for the logged-in user, and a reception means for receiving order information which is based on the ordering screen, characterized in that the supply means supplies the user an ordering screen which contains a
5 list of office consumables compatible with the equipment used by the user.

[0018]

Preferably, the sales system is characterized in that the supply means supplies the user an ordering
10 screen which further contains price information corresponding to the listed office consumables and the user.

[0019]

According to the present invention, there is
15 provided a program for implementing a sales system which makes a user who intends to order office consumables log-in, supplies an ordering screen for the logged-in user, and receives order information which is based on the ordering screen, characterized by having a
20 step of supplying the user an ordering screen which contains a list of the office consumables compatible with equipment used by the user.

[0020]

Preferably, the program is characterized by
25 further having a step of supplying the user an ordering screen which contains price information corresponding to the listed office consumables and the user.

[0021]

According to the present invention, there is provided a medium having a program code of a sales system which makes a user who intends to order office consumables log-in, supplies an ordering screen for the logged-in user, and receives order information which is based on the ordering screen, characterized in that the program code has at least a code for a step of supplying the user an ordering screen which contains a list of office consumables compatible with the equipment used by the user.

[0022]

Preferably, the medium is characterized by further having a code for a step of supplying the user an ordering screen which contains price information corresponding to the listed office consumables and the user.

[0023]

According to the present invention, there is provided a medium having data for a sales system which makes a user who intends to order office consumables log-in, supplies an ordering screen for the logged-in user, and receives order information which is based on the ordering screen, characterized by having at least the user, equipment used by the user, office consumables compatible with the equipment, and price information corresponding to the office consumables and

the user to generate the ordering screen.

[0024]

[Embodiments]

A sales and collection system of office
5 consumables according to the present invention will be
described in detail below with reference to the
drawings. Incidentally, although toner cartridges used
for electrophotography-based printers, copiers,
facsimile machines, and other machines, are cited as an
10 example of office consumables in the description of
embodiments, the present invention can be applied to
other types of office consumables, which include, for
example, copier toners, photoconductive drums, other
service parts, paper or OHP sheets, ink-jet printer
15 ink, etc. It is desired that empty containers of many
of these office consumables be collected. Regarding
copier toner, for example, the containers and packing
boxes of toner are desired to be collected.

[0025]

20 [Flow of toner cartridges]

Fig. 1 is a diagram illustrating flow of toner
cartridges.

[0026]

In Fig. 1, toner cartridges produced at a factory
25 11 of a manufacturer 1 according to a production plan
are sent to a warehouse 12 of the manufacturer as
needed. When an order is received by the manufacturer

1 from a seller 3, it may take a lot of days to make a delivery to the seller 3 (or seller's warehouse). The seller 3 can make a delivery to a user 4 in a day (on the day after the order) at the latest as long as the
5 ordered goods are in stock.

[0027]

On the other hand, there is no established route for collection of used toner cartridges. As described above, there are various routes including a route via
10 the seller 3 and direct route from the user 4 to the manufacturer 1. Also, it seems that many used toner cartridges are uncollected due to the problem of labor and cost involved in collection.

[0028]

15 Fig. 2 is a diagram showing the flow of toner cartridges according to this embodiment.

[0029]

In Fig. 2, toner cartridges produced at the factory 11 of the manufacturer 1 according to a
20 production plan are sent to a master warehouse 5 of the manufacturer as needed. The toner cartridges are placed temporarily in the master warehouse 5, and then distributed to branch warehouses 6 scattered over various locations according to a shipment schedule
25 described later. Although details will be described later, when an order is received from the user 4, toner cartridges are delivered from a branch warehouse 6 to

the user 4. At the time of delivery, used toner cartridges are collected according to the user's 4 wishes and placed temporarily in a branch warehouse 6, but details will be described later. Later, the used
5 toner cartridges placed in the branch warehouse 6 are sent to a collection center 7 from the branch warehouse 6 at a designated time and recycled there.

[0030]

The master warehouse 5 shown in Fig. 2 is the
10 primary warehouse central to the flow of toner cartridges and is operated by the manufacturer 1, the seller 3, a distributor, or the like. It is desirable that the branch warehouses 6 which serve as contact points with the user 4 should be operated by
15 distributors. The collection center 7 which is a center of recycling is operated by the manufacturer 1 or a recycler.

[0031]

A shared database (DB) 8 centrally controls
20 physical distribution which includes production at the factory 11; inventories in the master warehouse 5 and branch warehouses 6; orders by the user 4; and collection carried out among the factory 11, master warehouse 5, branch warehouses 6, user 4, and
25 collection center 7. The central control by the use of the shared DB 8 is aimed at realizing proper production, inventory, and physical distribution, at

enabling, for example, next day delivery of the toner cartridges ordered by the user 4, at ensuring that collected toner cartridges will be delivered to the collection center 7 in the right quantities at the right time, and so on.

[0032]

Incidentally, the seller 3 may not participate in the flow of toner cartridges itself, but does participate in data flow in the sales and collection system, described later.

[0033]

Implementing a flow of toner cartridges such as the one shown in Fig. 2 into a system ensures that toner cartridges will be available to users in a short period. This makes it easy to maintain the inventories of various toner cartridges at offices and business places which use various types of printer, copier, and facsimile machine. Furthermore, in the case of small offices and business places, a toner cartridge may be ordered when prompted by a printer or the like to replace the toner cartridge after the remaining quantity of toner falls below a certain threshold. This eliminates the need for inventory control itself.

[0034]

In other words, by collectively controlling the production, physical distribution, inventory, order receipts, and distribution of a great variety of toner

cartridges, it is possible to adjust the inventory of toner cartridges between the master warehouse 5 and branch warehouses 6 according to production and order receipts. Therefore, toner cartridges can be supplied to the user 4 in a short period even if the warehouse of the seller 3 or the like is not stocked with office consumables. This solves problems caused by zero inventory or excessive inventory carried by the seller 3 and removes increased interest burdens due to excessive inventory.

[0035]

Besides, by using the shared DB 8, the collection center 7 can keep track of what types of toner cartridge will be returned, when and in what quantities. This makes it possible to plan a collection and recycling schedule of used cartridges and collect and recycle the used cartridges efficiently at low cost. The collection center 7 can develop aggressive recycling activities.

[0036]

Furthermore, since the labor and cost of recycling used toner cartridges can be minimized, it is possible to prevent disposal of used toner cartridges, resulting in an increased collection rate. This makes it possible to build environmentally friendly collection system and recycling system.

[0037]

The sales and collection system which implements the flow of toner cartridges shown in Fig. 2 will be described below.

[0038]

5 [Sales and collection system]

Fig. 3 is a diagram showing an example configuration of the sales and collection system of toner cartridges.

[0039]

10 The main server 81 provides the shared DB 8. Incidentally, the shared DB 8 is not necessarily provided by a single server. It may be split among two or more servers or provided in parallel by two or more servers. In short, the shared DB 8 needs to be
15 provided as a single database only logically.

[0040]

The main server 81 is connected via a wide area network (WAN) 100, such as the Internet, with a plurality of terminals which use the shared DB 8.

20 Terminals 13, 31, 41, 51, 61, and 71 belong to the manufacturer 1, seller 3, user 4, master warehouse 5, branch warehouses 6, and collection center 7, respectively. A terminal 32 is a mobile terminal used by a salesman or serviceman of the seller 3 while a
25 terminal 62 is a mobile terminal used by an expediter of a distributor.

[0041]

[Shared database]

The shared DB 8 contains databases and their field information as illustrated below by an example. The information is provided to each terminal shown in Fig. 3 and updated there. Incidentally, the databases and their fields shown below may be deleted or new ones may be added depending on the users and characteristics of office consumables handled by the sales and collection system.

10 [0042]

● Seller information database

Seller ID and password

Name, address, telephone number, and facsimile number

15 E-mail address

Customer representative information

Sales performance information

Collection performance information

Inventory information

20 ● Warehouse information database

Master warehouse information

Branch warehouse information

Master-branch connection information

Warehouse-specific inventory information

25 The master warehouse information and branch warehouse information include the locations of the warehouses, etc. The master-branch connection

information includes information about the time required to deliver goods from the master warehouse 5 to the branch warehouses 6 and the time required to deliver goods between the branch warehouses 6, etc.

- 5 The warehouse-specific inventory information includes the proper inventories of individual warehouses, etc.
[0043]

Based on this information, the main server 81 can control inventory transfers from the master warehouse 5
10 to the branch warehouses 6 and division of delivery operations among the branch warehouses 6. Besides, if toner cartridges ordered by the user 4 are not available in nearby branch warehouses 6, the main server 81 can also control inventory transfers so that
15 toner cartridges can be delivered within the period desired by the user 4 or in the shortest possible period.

[0044]

● Product information database

- 20 Product name and model number
Related consumables
Product-specific inventory information
Price information

● Customer information database

- 25 User ID and password
Name, address, telephone number, and facsimile number

E-mail address

Sales representative, salesman, and serviceman

Nearby branch warehouse #1

Nearby branch warehouse #2

5 Name (model number) and quantity of purchased
product

Order history

Collection flag

Collection history

10 Payment history

Price information

● Shipment information database

Shipment destination customer information

Status

15 Order number

Order date/time

Ordered item

Delivery time

Price

20 Payment method

Shipment date/time

Shipment arrival date/time

Receiving inspection date/time

● Collection information database

25 Collection source customer information

Collection number

Collection date/time

Collected item

Expected delivery date/time at collection center

Delivery date/time

● Manufacturer, seller information, distributor

5 information

Manufacturer ID and password

Seller ID and password

Salesman ID and password

Serviceman ID and password

10 Warehouse ID and password

Expediter ID and password

[0045]

[Ordering sequence and screen]

Fig. 4 is a diagram showing an example of an
15 ordering sequence for toner cartridges. Figs. 5 to 9
are diagrams showing examples of screens displayed on
the terminal 41 of the user 4 when ordering toner
cartridges.

[0046]

20 First, the user 4 accesses the main server 81 via
the terminal 41. Specifically, the user 4 specifies
the URL (Uniform Resource Locator) of the main server
81 using a Web browser or other software running on the
terminal 41. In response, the main server 81 supplies
25 data (hereinafter referred to as "HTML data") written
in HTML (Hyper Text Markup Language) and corresponding
to a log-in screen to the terminal 41, whose monitor

then displays the log-in screen shown in Fig. 5.

[0047]

In step S1 shown in Fig. 4, the user 4 enters his/her user ID which corresponds to his/her customer number, enters his/her password, and then presses an [OK] button to inform the main server 81 of the user ID and password. Incidentally, it is assumed that each user (office or business place) of a printer has been informed of a user ID and password by the seller 3.

10 [0048]

When informed of the user ID and password, the main server 81 judges in step S2 whether a user who corresponds to the user ID and password exists, by referencing the customer information database. If it is judged that a corresponding user exists, the main server 81 approves the user, generates HTML data which corresponds to an ordering screen, and supplies it to the terminal 41. When the terminal 41 receives the supplied ordering screen information, its monitor displays the ordering screen shown in Fig. 6.

20 [0049]

The ordering screen shown in Fig. 6 consists mainly of a toner cartridge list 101 compatible with the equipment used by the user, settlement method selection section 102, delivery time specification section 103, and collection service registration section 104 for used toner cartridges. Regarding the

delivery time specification section 103, it is desirable that a pull-down menu form should be used so that the part enclosed in [] pulls down to allow the user to specify a business day excluding holidays. In that case, a message should be displayed stating:

5 "Select a desired delivery time from the pull-down menu and then select either morning or afternoon."

Example: Delivery time: year [2000] month [2] day [14] ● Morning ○ Afternoon

10 [0050]

The list 101 contains model numbers of toner cartridges, model numbers of corresponding machines, price information, which are displayed together with input fields for entering an order quantity for each toner cartridge model number. Although Fig. 6 shows only two toner cartridge models, actually the main server 81 takes measures to list all toner cartridge model numbers compatible with each of the machines including printers, copiers, facsimile machines, etc.

15 used by the user.

[0051]

Information of the equipment used by the user is obtained from a purchased product name field of the customer information database. A record having a product name or model number corresponding to the information is retrieved and obtained from the production information database. The toner cartridge

25

model number can be derived from the related consumables field of the obtained record.

[0052]

The collection service registration section 104
5 is intended for the user to indicate whether to use the collection service of used toner cartridges. If the user wants to use the collection service and indicates it, used toner cartridges are collected at the time of the above-mentioned delivery of toner cartridges.

10 [0053]

Furthermore, if the user expresses his/her intention to use the collection service as described above, a pair of shipping and collection tickets (shipping/collection ticket) are issued by the main
15 server 81. The issued ticket is attached to a packing box of the toner cartridges delivered to the user. The user keeps the box with the ticket attached, and uses it to put used toner cartridges at the time of collection. The use of the shipping/collection ticket
20 saves labor at the time of collection, for example, sparing the user the trouble of issuing a new ticket and the expediter the trouble of data entry. Also, since shipment and collection are managed by the same ticket number or the like, the collection rate for each
25 user can be managed easily, and so forth.

[0054]

After filling in the fields on the ordering

screen, the user presses a [Send] button. In step S3, ordered items and order quantity data which correspond to the list 101, settlement method data which corresponds to the selection section 102, data about
5 the desired delivery date which corresponds to the specification section 103, and a collection flag which corresponds to the collection service registration section 104 is sent to the main server 81.

[0055]

10 Next, in step S4, based on the received data and flag, the main server 81 generates HTML data which corresponds to an order confirmation screen and supplies the generated data to the terminal 41. Consequently, the monitor of the terminal 41 displays
15 the order confirmation screen shown in Fig. 7. The content of the screen shown in Fig. 7 is the one which is displayed if the user has expressed his/her intention to use the collection service. If the user does not intend to use the collection service, the
20 content of the screen will be changed to a message such as "I will not use the collection service of used toner cartridges."

[0056]

 If the order details, collection service
25 registration information, etc. displayed on the order confirmation screen are correct, the user 4 presses an [OK] button in step S5. If there is a mistake or

something the user wants to correct, the user presses the [Cancel] button. If the [Cancel] button is pressed, the monitor of the terminal 41 displays the ordering screen again.

5 [0057]

Upon receiving the order confirmation information, the main server 81 generates information which indicates a new order receipt. This information contains order number, user ID, collection flag, order history, collection history, sales representative ID, order date/time, ordered item, order quantity, desired delivery time, price, payment method, and other data.

10 [0058]

Next, the main server 81 checks the delivery time using the customer information database and warehouse information database. Specifically, the main server 81 checks the nearby branch warehouse #1 and #2 fields associated with the user ID, checks the warehouse-specific inventory information field to see whether the branch warehouses 6 are stocked with the ordered items in quantities sufficient to meet the order quantity, and sets the delivery time based on the results of checks. Normally, if the branch warehouses 6 registered in the nearby branch warehouse #1 and #2 fields carry inventory, a delivery can be made on the next day. If the branch warehouses 6 do not carry inventory, the main server 81 determines and sets the

15

20

25

delivery time using the warehouse information database.

[0059]

Next, in step S7, the main server 81 sends the above-mentioned order receipt information to the seller 3 in charge of the user 4 by attaching a price confirmation request. This is because the delivered price, which is set and entered by the seller 3, varies depending on the conditions of trade with the user, and thus it should be confirmed. The price confirmation request is processed immediately by software running on the terminal 31 of the seller 3, and in step S8, price confirmation, order cancellation, or other information is returned to the main server 81. Alternatively, the price confirmation request is sent to the portable terminal 32 of the salesman in charge of the user and in step S8, price confirmation, order cancellation, or other information is returned to the main server 81 via the portable terminal 32 by the salesman.

[0060]

Upon receiving the price confirmation, the main server 81 sends order receipt information to the manufacturer 1 immediately in step S9 by attaching an order approval request. The order approval request is processed immediately by software running on the terminal 13 of the manufacturer 1 or by the operator who manages the terminal 13. In step S10, normally an order approval is returned to the main server 81. If

information indicating cancellation of the order is received because of a mistake in price, the status of the corresponding order receipt information is changed, for example, to "Cancelled."

5 [0061]

Next, in step S11, if the main server 81 receives an order approval, it generates e-mail indicating the order approval, and sends it to the user 4 and seller 3. This e-mail contains information such as order
10 number, user name, order date/time, ordered item, delivery quantity, delivery time, price, and seller 3 information (name, address, telephone number, and facsimile number).

[0062]

15 If the status of the order receipt information indicates order cancellation, the main server 81 generates e-mail confirming the order cancellation and sends it to the user 4 and seller 3. This e-mail contains information such as order cancellation reason,
20 order number, user name, order date/time, ordered item, delivery quantity, delivery time, price, and seller 3 information (name, address, telephone number, and facsimile number).

[0063]

25 This ends the ordering sequence for toner cartridges. However, after the user 4 sends the order confirmation in step S5, the monitor of the user 4's

terminal 41 displays a screen such as the one shown in Fig. 8 for selecting among continuing ordering, viewing order details again, and finishing ordering (logout) although this screen is not shown in Fig. 4. When the user 4 presses a [logout] button, the connection between the main server 81 and terminal 41 is cut off. [0064]

If the user has already been registered for the collection service at the time of log-in in step S1, the main server 81 may supply an ordering screen such as the one shown in Fig. 9 to the terminal 41 in step S2. Specifically, the lower part of the order screen shown in Fig. 9 contains a display section 105 for expressing appreciation for cooperation in collection and indicating the progress of collection while the lower part of the ordering screen shown in Fig. 6 contains the collection service registration section 104 for registering for collection of used toner cartridges. The user 4 can see the current collection quantity, collection rate, points, etc. from this display section 105. [0065]

In this way, the user 4 can easily order toner cartridges compatible with the equipment he/she uses without the need to select the suitable ones from among a great variety of toner cartridges. This sharply reduces the possibility of ordering wrong toner

cartridges, and thus saves the labor or the like of returning toner cartridges ordered by mistake.

Furthermore, since the ordering screen displays prices relevant to the given user 4, user 4 can quickly see
5 the cost needed to buy toner cartridges.

[0066]

On the part of the seller 3, since prices can be presented specifically to the user 4, it is possible to facilitate the sale via the Internet 100, enhancing the
10 efficiency of operations. Furthermore, the seller 3 can save the labor of handling returned products due to wrong orders.

[0067]

[Main-server processing]

15 Typical processing performed by the main server
81 will be described next.

[0068]

● Order processing

Fig. 10 is a flowchart showing an example of
20 order processing. It corresponds to the ordering sequence shown in Fig. 4.

[0069]

When the user ID and password is received from the user 4, it is judged in step S21 whether the user
25 is a registered user and password authentication is performed in step S22, based on the customer information database. If the user is found to be a

registered user and password authentication is successful, it is judged in step S23 whether there is any illegal information about the user 4. If there is no illegal information, HTML data for the ordering
5 screens is generated in step S24. Specifically, the list 101 and selection section 102 shown in Figs. 6 and 9 are generated according to the user ID, and then it is determined which to display, the collection service registration section 104 shown in Fig. 6 or the display
10 section 105 shown in Fig. 9. The HTML data for the ordering screens generated in this way is sent to the user 4 in step S25.

[0070]

The processing is terminated in any of the
15 following cases: the user is not a registered user, password authentication fails, and there is illegal information about the user 4.

[0071]

When order data is received in step S26, it is
20 judged in step S27 whether or not the order data contains abnormal data. If it does, the processing returns to step S25. If it does not, the HTML data for the order confirmation screen shown in Fig. 7 is generated in step S28 and sent to the user 4 in step
25 S29.

[0072]

Next, in step S30, it is judged whether data

indicating confirmation of the order was received. If data indicating cancellation was received, the processing returns to step S25. If data indicating confirmation of the order was received, the customer information database (specifically, order history, collection flag, etc.) is updated in step S31 and the order receipt information described above is generated in step S32.

[0073]

10 ● Shipment processing

Fig. 11 is a flowchart showing an example of shipment processing based on order receipt information.

[0074]

In step S41, one piece of order receipt information is read in. Then, based on the user ID, ordered item, and order quantity recorded in the order receipt information, inventory checks are made in steps S42 to S46. Specifically, the inventory of each node is checked in the order: the nearby branch warehouse #1, nearby branch warehouse #2, master warehouse 5, seller (sales representative) 3 associated with the user ID, and manufacturer 1. Then, procedures are taken for goods issue from the node nearest to the user 4.

25 [0075]

For example, if the manufacturer 1 carries inventory while other nodes do not, procedures are

taken for goods issues from the manufacturer 1, master warehouse 5, and branch warehouse 6 in this order in steps S47 to S50. Needless to say, these goods issue procedures are taken in sync with the flow of toner
5 cartridges.

[0076]

In step S50, based on the information received from the mobile terminal 62 of the expediter of the distributor, it is judged whether delivery has been
10 made in relation to the order receipt information. If it has been, delivery procedures are carried out and the order receipt information is updated (e.g., a delivered flag is turned on) in step S51.

[0077]

15 If the branch warehouses 6 and master warehouse 5 do not carry inventory and the seller 3 does, delivery is entrusted to the seller 3 in step S52. In response to the request, the seller 3 instructs, for example, a serviceman, to make a delivery. In that case, it is
20 judged in step S50 whether delivery has been made in relation to the order receipt information, based on the information received from the mobile terminal 32 of the serviceman.

[0078]

25 If the manufacturer 1 does not carry inventory either, back order procedures are carried out in step S53 and the order receipt information is updated.

[0079]

● Collection processing

Fig. 12 is a flowchart showing an example of collection processing based on the order receipt information.

[0080]

The expediter who delivers toner cartridges references the collection flag in the order receipt information. If the collection flag is on, used toner cartridges are collected at the time of delivery. The expediter accesses the main server 81 using the mobile terminal 62 (S61 and S62), and sends delivery information and collection information associated with the order receipt information (S63). The collection information contains the model numbers and quantities of the collected toner cartridges associated with the collection date and order receipt information.

[0081]

Upon receiving the collection information, the main server 81 updates the collection history for the user ID in the order receipt information in step S64. Then, when goods receipt information of the collected cartridges is received from the terminal 61 of the branch warehouse 6 in step S65, the main server 81 updates the collection information in step S66. When goods issue information of the collected cartridges is received from the terminal 61 of the branch warehouse 6

in step S67, the main server 81 updates the collection information in step S68. When arrival information of the collected cartridges is received from the terminal 71 of the collection center 7 in step S69, the main
5 server 81 updates the collection information in step S70 (e.g., turns on a collection completed flag).

[0082]

[Concrete examples of office consumables]

Fig. 13 is a schematic diagram showing an example
10 configuration of a laser beam printer (LBP) equipped with office consumables according to this embodiment.

[0083]

In Fig. 13, an image scanner 2201 reads an original image and performs digital image processing on
15 it. A printer 2202 forms an image on printing paper, corresponding to the original image read by the image scanner 2201, and outputs it.

[0084]

In the image scanner 2201, reference numeral 2200
20 denotes a platen cover and 2203 denotes a platen glass. An original 2204 is placed with its recording surface turned to the bottom of the figure and is secured by the platen cover 2200. Light outputted from a fluorescent lamp 2205 is reflected by the original
25 2204, led to mirrors 2206, 2207, and 2208, and focused on a linear CCD image sensor (hereinafter referred to as the "CCD") 2210 through a lens 2209, which is fitted

with an infrared cut filter. The CCD 2210 reads the reflected light from the original 2204 by separating it into red (R), green (G), and blue (B) and sends the resulting analog image signals to an image processor

5 2211. The entire original 2204 is scanned when a unit containing the fluorescent lamp 2205 and mirror 2206 and a unit containing the mirrors 2207 and 2208 are caused to move mechanically at velocities of V and $V/2$, respectively, in the sub scanning direction orthogonal

10 to the CCD 2210.

[0085]

The CCD 2210 consists, for example, of approximately 7500 pixels each for RGB colors, arranged in three lines (1210-1 to 1210-3) of light-sensitive

15 pixels. It can scan the shorter 297-mm dimension of an A3-size original at a resolution of 600 dpi. If it is necessary to scan the shorter 297-mm dimension of an A3-size original only at a resolution of 400 dpi, a one-dimensional image sensor with approximately 5000

20 pixels each for RGB colors will do.

[0086]

The image processor 2211 converts the analog image signals outputted from the CCD 2210 into digital image signals, generates images in color components

25 yellow (Y), magenta (M), cyan (C), and black (BK) which correspond to the print toner colors, and sends the images to the printer 2202. One of the YMCBK color

component images is sent to the printer 2202 per scan of the original (per sub scan) by the image scanner 2201. Therefore, through four scans of the original, image signals of the four color components are sent to the printer 2202 in sequence to complete one print. However, if the image processor 2211 has necessary and sufficient memory, image signals obtained by one scan can be stored in the memory, eliminating the need for the remaining three scans.

10 [0087]

The image signals of the YMCBK color components sent out by the image processor 2211 in sequence in this way are input into a laser driver 2212 in the printer 2202. The laser driver 2212 causes a laser diode 2213 to emit light according to the inputted image signals. Laser light emitted from the laser diode 2213 scans a photoconductive drum 2217 via a polygon mirror 2214, f- θ lens 2215, and mirror 2216, and forms an electrostatic latent image on the photoconductive drum 2217.

[0088]

The electrostatic latent image formed on the photoconductive drum by the laser light is developed by developing units 2219 to 2222 which have yellow, magenta, cyan, and black toners. Specifically, four developing units 2219 to 2222 contact the photoconductive drum 2217 one after another to carry

out development using the color toners.

[0089]

Printing paper supplied by a paper cassette 2224 or 2225 is wound around a transfer drum 2223 by
5 electrostatic forces and the toner image on the photoconductive drum 2217 is transferred. In the case of recording using four color toners, four rotations of the transfer drum 2223 transfers the color toners in overlays to the printing paper. Then the printing
10 paper is removed from the transfer drum 2223, the toner image is fixed by a fixing unit 226, and the printing paper is ejected.

[0090]

In such an LBP, the photoconductive drum 2217,
15 toner or toner cartridges contained in the developing units 2219 to 2222, and printing paper contained in the paper cassettes 2224 and 2225 are office consumables.

[0091]

Fig. 14 is a schematic diagram showing an example
20 configuration of an ink-jet printer (IJRA) equipped with office consumables according to this embodiment.

[0092]

In Fig. 14, a carriage HC engaged with a helical groove 5005 of a lead screw 5004 which rotates via
25 power transmission gears 5011 and 5009 along with the forward and reverse rotation of a drive motor 5013 has a pin (not shown) and reciprocates in the directions of

arrows a and b. The carriage HC carries an ink-jet cartridge IJC.

[0093]

Reference numeral 5002 denotes a paper bail,
5 which presses printing paper P against a platen 5000 along the travel direction of the carriage HC.
Reference numerals 5007 and 5008 denote photosensors which serve as home position detecting means for checking, in order to switch the rotational direction
10 of the motor 5013, whether a lever 5006 of the carriage HC is located in the area where the sensors are mounted. Reference numeral 5016 denotes a support member for supporting a capping member 5022 which caps the front of a printhead IJH. Reference numeral 5015
15 denotes a suction means for sucking on the inside of the cap to recover the printhead IJH through an opening 5023 in the cap.

[0094]

Reference numeral 5017 denotes a cleaning blade
20 while 5019 denotes a member which allows the blade to move back and forth. They are supported on a body support plate 5018. The type of the cleaning blade is not limited to the one described above, and it goes without saying that a known cleaning blade can be
25 applied to this embodiment. Reference numeral 5021 denotes a lever for starting suction in suction recovery. It moves together with movement of a cam

5020 engaged with the carriage HC. A driving force from the drive motor 5013 is controlled by a well-known transmission means such as clutch engagement and disengagement.

5 [0095]

According to the above configuration, the capping, cleaning, and suction recovery are performed by the action of the lead screw 5004 when the carriage HC is within an area on the home position side so that
10 desired processes can be carried out at corresponding locations. However, desired actions may be performed with known timings.

[0096]

In such an IJRA, the ink-jet cartridge IJC or ink
15 in it constitutes office consumables.

[0097]

[Other embodiments]

Needless to say, the object of the present invention can also be attained by a storage medium (or
20 recording medium) containing the software program code that implements the functions of the above embodiment: it is supplied to a system or apparatus, whose computer (or a CPU or MPU) then reads the program code out of the storage medium and executes it. In that case, the
25 program code itself read out from the storage medium will implement the functions of the above embodiment, and the storage medium which stores the program code

will constitute the present invention. The functions of the above embodiment may be implemented not only by the program code read out and executed by the computer, but also by part or all of the actual processing
5 executed, in accordance with instructions from the program code, by an OS (operating system) running on the computer.

[0098]

Furthermore, the functions of the above
10 embodiment may also be implemented by part or all of the actual processing executed by a CPU or the like contained in a function expansion card inserted in the computer or a function expansion unit connected to the computer if the processing is performed in accordance
15 with instructions from the program code that has been read out of the storage medium and written into memory on the function expansion card or unit.

[0099]

In the case where the present invention is
20 applied to the storage medium mentioned above, the storage medium will store the program code that corresponds to the above-described sequence in Fig. 4 and/or the flowcharts in Figs. 10 to 12; and/or the program code which creates the data for the screens
25 shown in Figs. 5 to 9.

[0100]

[Effect of the Invention]

As described above, the present invention makes it easy to order office consumables compatible with the equipment used. Also, the prices of goods can be presented specifically to each user.

5 [Brief Description of the Drawings]

[Fig. 1]

Fig. 1 is a diagram illustrating the conventional flow of toner cartridges.

[Fig. 2]

10 Fig. 2 is a diagram showing the flow of toner cartridges according to this embodiment.

[Fig. 3]

Fig. 3 is a diagram showing an example configuration of a sales and collection system of toner cartridges.

15 [Fig. 4]

Fig. 4 is a diagram showing an example of ordering sequence for toner cartridges.

[Fig. 5]

Fig. 5 is a diagram showing an example of screens
20 displayed on the user's terminal at the time of ordering toner cartridges.

[Fig. 6]

Fig. 6 is a diagram showing an example of screens
displayed on the user's terminal at the time of
25 ordering toner cartridges.

[Fig. 7]

Fig. 7 is a diagram showing an example of screens

displayed on the user's terminal at the time of
ordering toner cartridges.

[Fig. 8]

Fig. 8 is a diagram showing an example of screens
5 displayed on the user's terminal at the time of
ordering toner cartridges.

[Fig. 9]

Fig. 9 is a diagram showing an example of screens
displayed on the user's terminal at the time of
10 ordering toner cartridges.

[Fig. 10]

Fig. 10 is a flowchart showing an example of order
processing.

[Fig. 11]

15 Fig. 11 is a flowchart showing an example of shipment
processing based on order receipt information.

[Fig. 12]

Fig. 12 is a flowchart showing an example of collection
processing based on order receipt information.

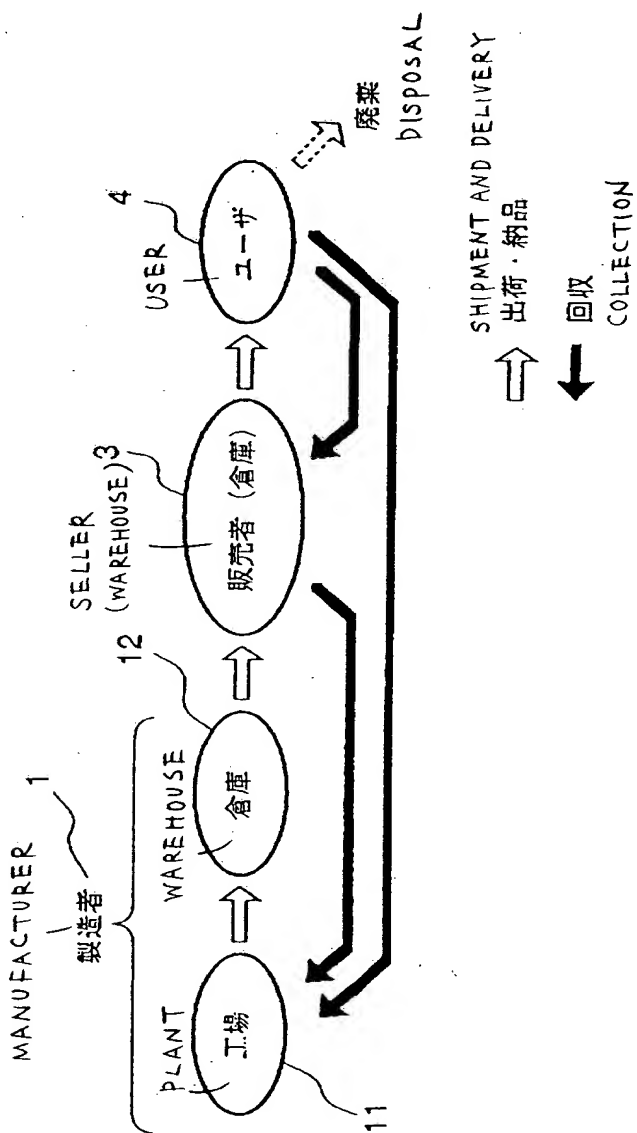
20 [Fig. 13]

Fig. 13 is a schematic diagram showing an example
configuration of a laser beam printer.

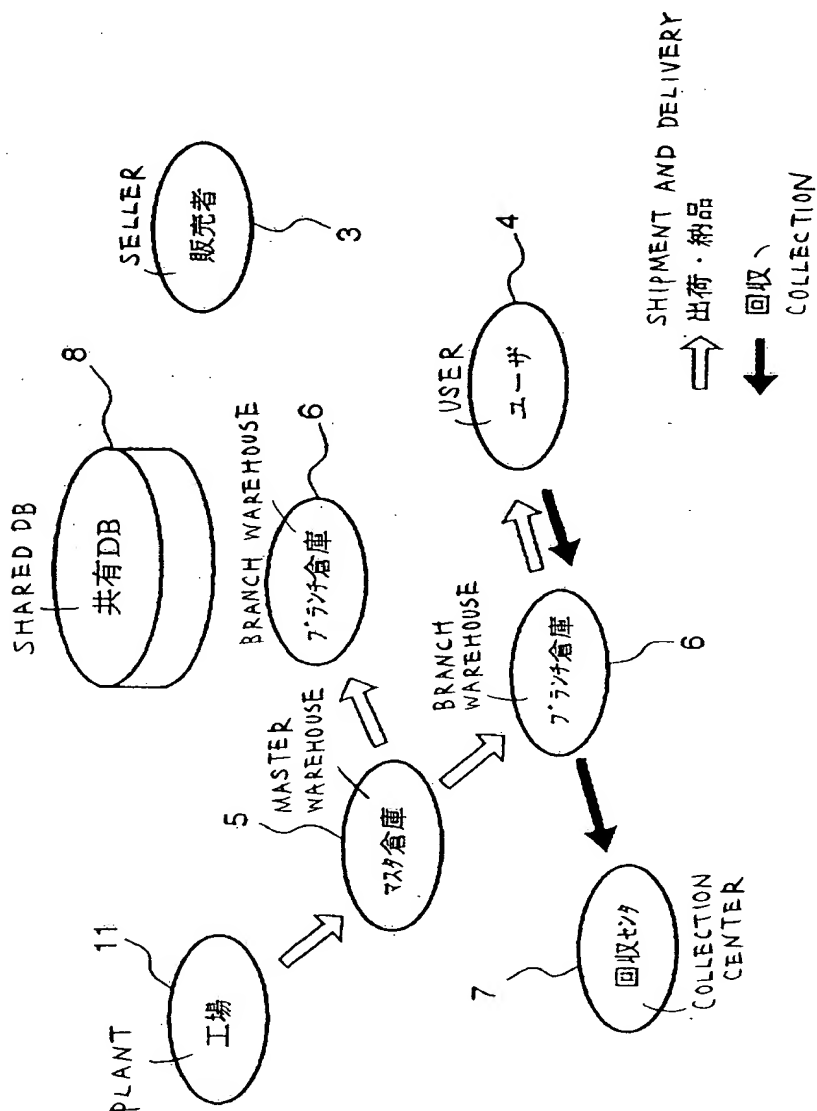
[Fig. 14]

Fig. 14 is a schematic diagram showing an example
25 configuration of an ink-jet printer.

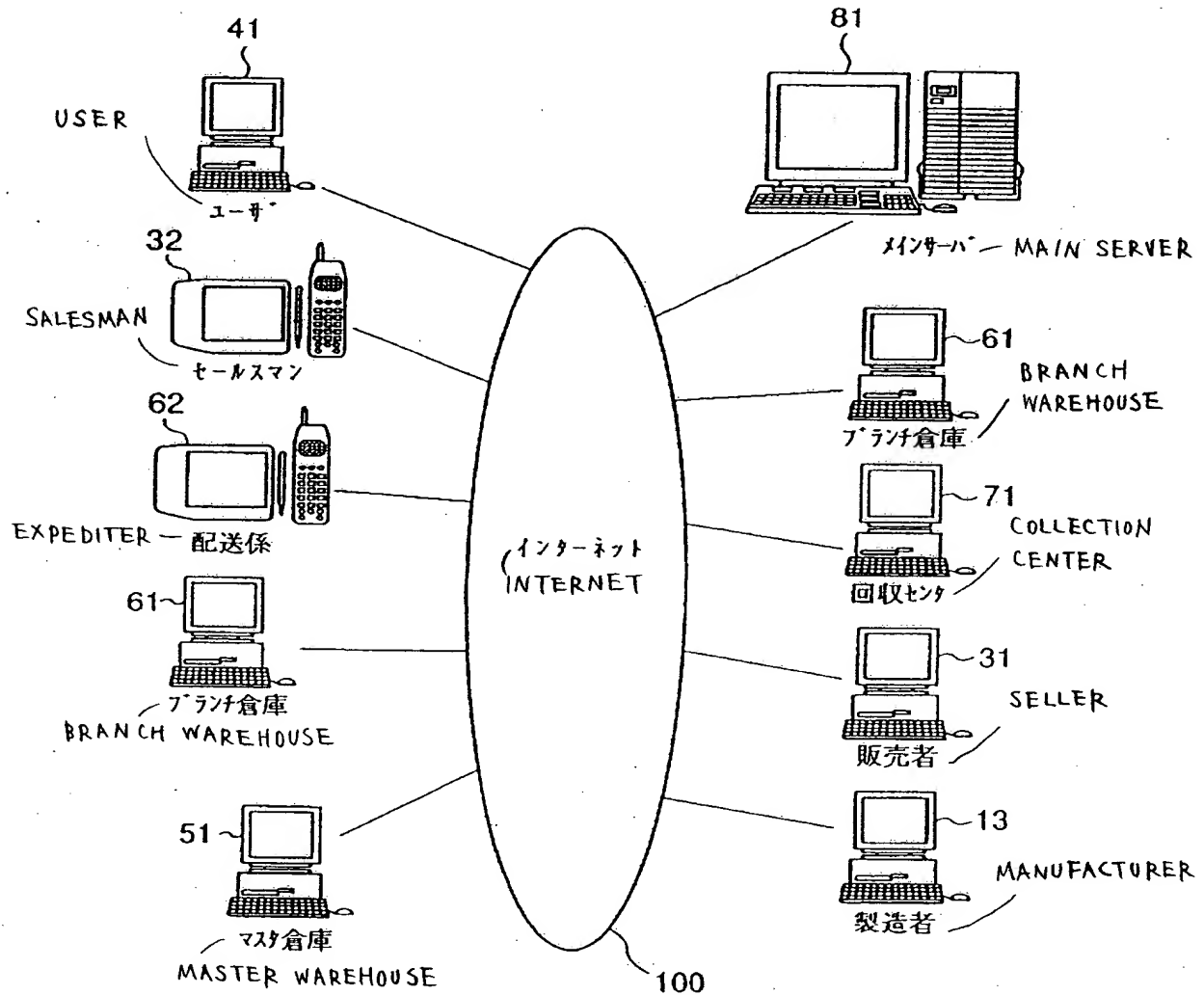
(【書類名】 図面 - DRAWINGS
TYPE OF DOCUMENT
【図 1】
FIG. 1



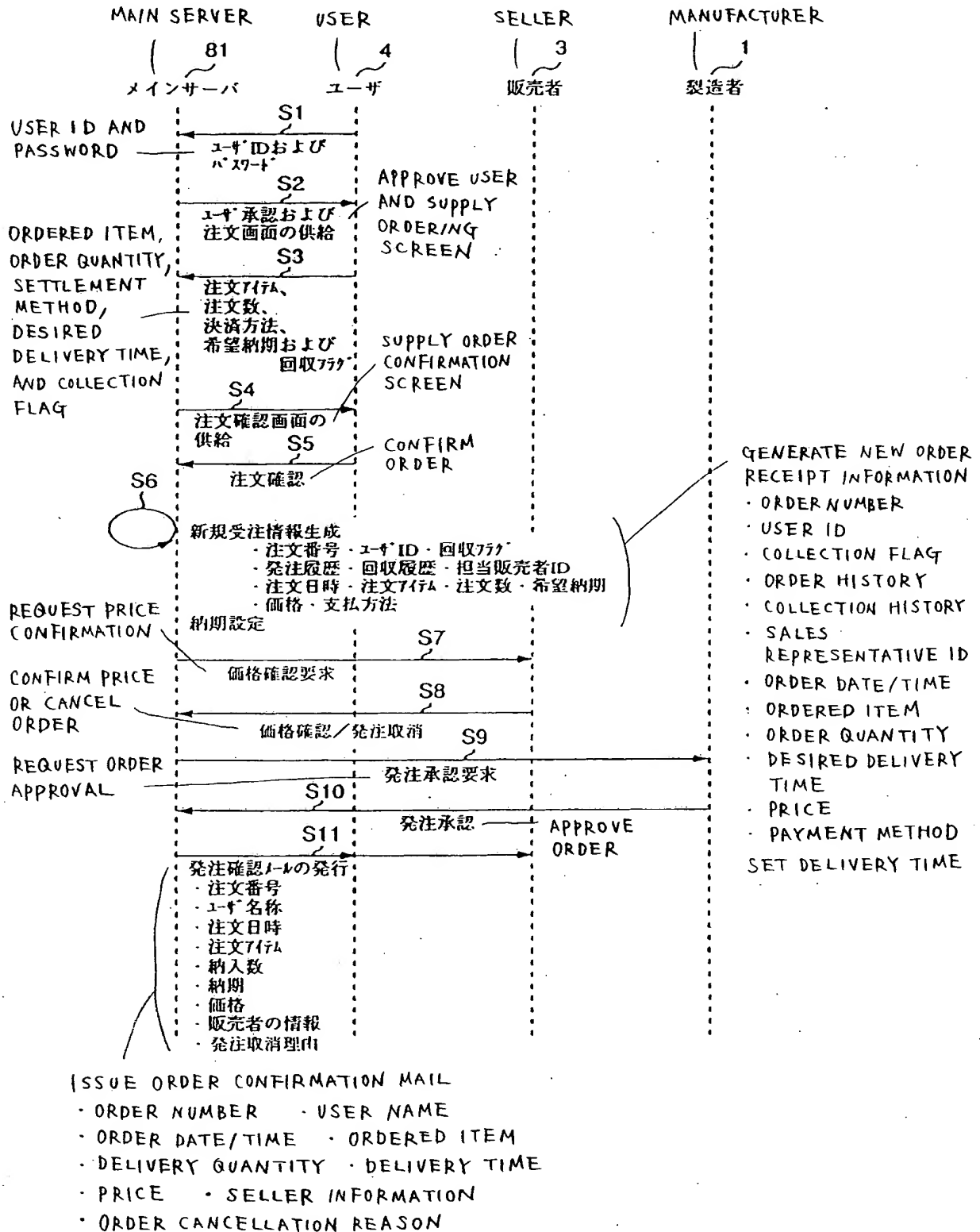
(【図2】
FIG. 2



【図3】
FIG.3



〔図4〕
FIG. 4



【図5】
FIG.5

TONER CARTRIDGE ORDERING WEB SITE

トナーカートリッジ
オーダーウェブサイト

ENTER YOUR
CUSTOMER
NUMBER AND
PASSWORD

お客様番号とパスワードを入力してください

CUSTOMER
(NUMBER
お客様番号

(PASSWORD
パスワード

OK Cancel

(【図6】
Fig.6

TONER CARTRIDGES
NECESSARY FOR
YOUR EQUIPMENT
ARE AS FOLLOWS
ENTER ORDER
QUANTITIES

101

102

103

DELIVERY TIME

104

TONER CARTRIDGE ORDERING WEB SITE

トナーカートリッジ
オーダーウェブサイト

○×△カンパニー様ですね
お客様の担当ディーラーは○●商会です

お客様がご利用の機器に必要なトナーカートリッジは
次の商品です。ご注文数を入力してください

型番	MODEL NO.	価格	ご注文数
A CRG	FOR LBP A (LBP A用)	¥20,000	<input type="text"/>
B CRG	FOR FAX B (FAX B用)	¥30,000	<input type="text"/>

決済方法を選択してください
☒ 前回と同じ (☐ 銀行から自動引き落とし)
☐ 銀行振込
☐ 請求書決済
☐ その他

ご希望の納期をyyy.mm.dd形式で指定し、
午前/午後を指定してください

納期 ☒ 午前 ☐ 午後 MORNING AFTERNOON

使用済みトナーカートリッジの回収にご協力ください
 回収数/回収率に応じたポイントをさしあげます
 詳しくはこちらをご覧ください

回収に参加する ☒ YES ☐ NO
 USE COLLECTION SERVICE

送信する

Cancel

SEND

YOU ARE COMPANY
OX△, ARE YOU?
YOUR DEALER IS
○● & CO.

SELECT SETTLEMENT
METHOD
☒ SAME AS PREVIOUS
TIME (DIRECT DEBIT
FROM ☐ BANK)
☐ BANK TRANSFER
☐ SEND BILL
☐ OTHER

SPECIFY DESIRED
DELIVERY TIME IN
FORMAT yyy.mm.dd
AND SELECT
EITHER MORNING
OR AFTERNOON

PLEASE HELP US COLLECT USED TONER CARTRIDGES
 WE WILL GIVE POINTS ACCORDING TO YOUR COLLECTION
 QUANTITY / COLLECTION RATE
 FOR MORE INFO, SEE —

【図7】
Fig. 7

TONER CARTRIDGE ORDERING WEB SITE

トナーカートリッジ
オーダーウェブサイト

注文番号は123-4567です

YOUR ORDER
NUMBER IS
123-4567

MODEL NO. (型番)	PRICE (価格)	QUANTITY (ご注文数)
A CRG (FOR LBP A (LBP A用))	¥20,000	3
B CRG (FOR FAX B (FAX B用))	¥30,000	2

合計金額は¥120,000です

TOTAL AMOUNT IS ¥120,000

決済方法は☐銀行から自動引き落としです
ご希望納期は2000年2月14日の午後です
使用済みトナーカートリッジの回収に参加する

ご注文内容はこれでOKですか?
IS INFORMATION ABOVE CORRECT?

YOUR PAYMENT METHOD IS
DIRECT DEBIT FROM YOUR
☐ BANK ACCOUNT
YOUR DESIRED DELIVERY
TIME IS AFTERNOON OF
FEBRUARY 14, 2000
YOU ARE REGISTERED
FOR COLLECTION OF
USED TONER CARTRIDGES

【図8】
Fig. 8

TONER CARTRIDGE ORDERING WEB SITE

トナーカートリッジ
オーダーウェブサイト

(ご注文ありがとうございました
WE THANK YOU FOR YOUR ORDER

引き続き注文を行われる場合は【継続】ボタンを
ご注文内容を確認する場合は【確認】ボタンを
注文を終了する場合は【logout】ボタンを押してください

CONTINUE VIEW

CLICK "CONTINUE" BUTTON
TO PLACE MORE ORDERS,
CLICK "VIEW" BUTTON TO
VIEW CONTENTS OF YOUR
ORDER(S), OR CLICK "LOGOUT"
BUTTON TO FINISH
PLACING ORDERS

【図9】
FIG. 9

TONER CARTRIDGE ORDERING WEB SITE

トナーカートリッジ
オーダーウェブサイト

○×△カンパニー様ですね
お客様の担当ディーラーは○●商会です

お客様がご利用の機器に必要なトナーカートリッジは
次の商品です。ご注文数を入力してください

型番 MODEL NO.	価格 PRICE	ご注文数 QUANTITY
A CRG (FOR LBP A (LBP A用))	¥20,000	<input type="text"/>
B CRG (FOR FAX B (FAX B用))	¥30,000	<input type="text"/>

101

決済方法を選択してください

☒ 前回と同じ (☐ 銀行から自動引き落とし)
☐ 銀行振込
☐ 請求書決済
☐ その他

102

ご希望の納期をyyy.mm.dd形式で指定し、
午前/午後を指定してください

103
 納期 ☒ 午前 ☐ 午後 MORNING AFTERNOON
 DELIVERY TIME

105

使用済みトナーカートリッジの回収に
ご協力いただき、誠にありがとうございます

○×△カンパニー様の回収数/回収率/ポイントは
200本/70%/200ポイントです

SEND

YOU ARE COMPANY
OX△, ARE YOU?
YOUR DEALER IS
O● & CO.

TONER CARTRIDGES
NECESSARY FOR
YOUR EQUIPMENT
ARE AS FOLLOWS
ENTER ORDER
QUANTITIES

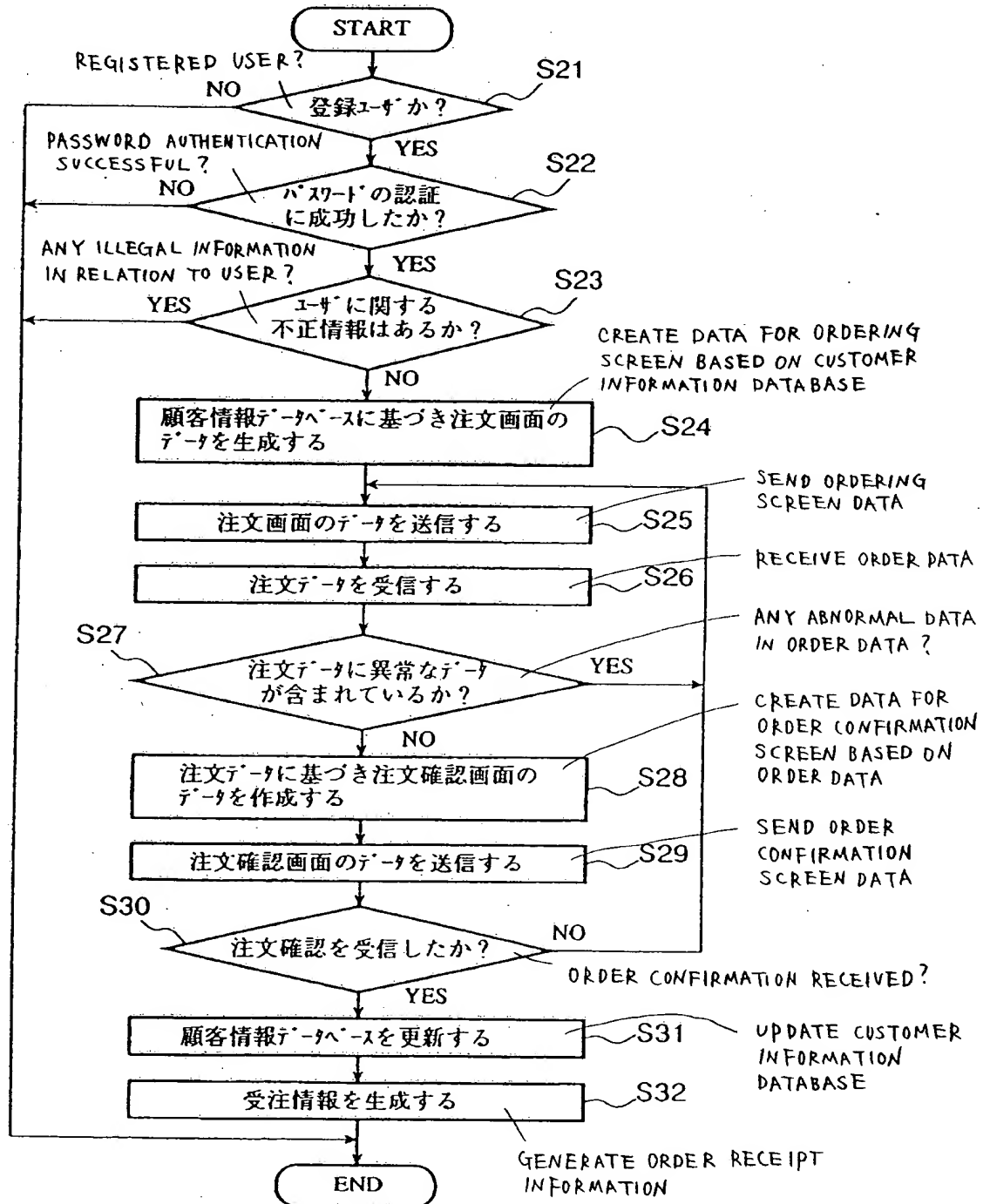
SELECT SETTLEMENT
METHOD

☒ SAME AS PREVIOUS
TIME (DIRECT DEBIT
FROM O■ BANK)
☐ BANK TRANSFER
☐ SEND BILL
☐ OTHER

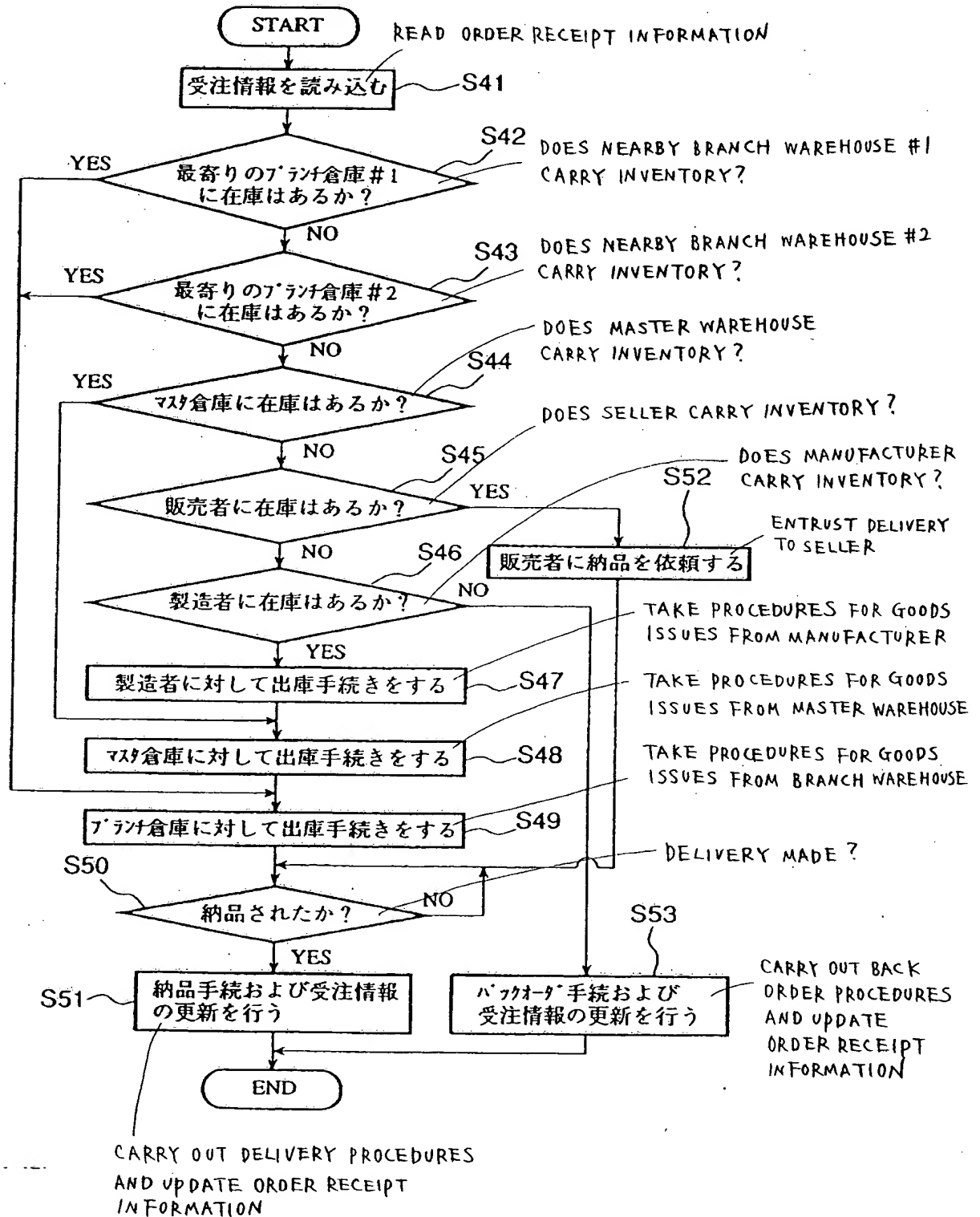
SPECIFY DESIRED
DELIVERY TIME IN
FORMAT yyy.mm.dd
AND SELECT EITHER
MORNING OR
AFTERNOON

THANK YOU FOR HELPING US COLLECT USED
TONER CARTRIDGES
YOUR COLLECTION QUANTITY, COLLECTION RATE,
AND POINTS ARE 200 CARTRIDGES, 70%, AND
200 POINTS, RESPECTIVELY

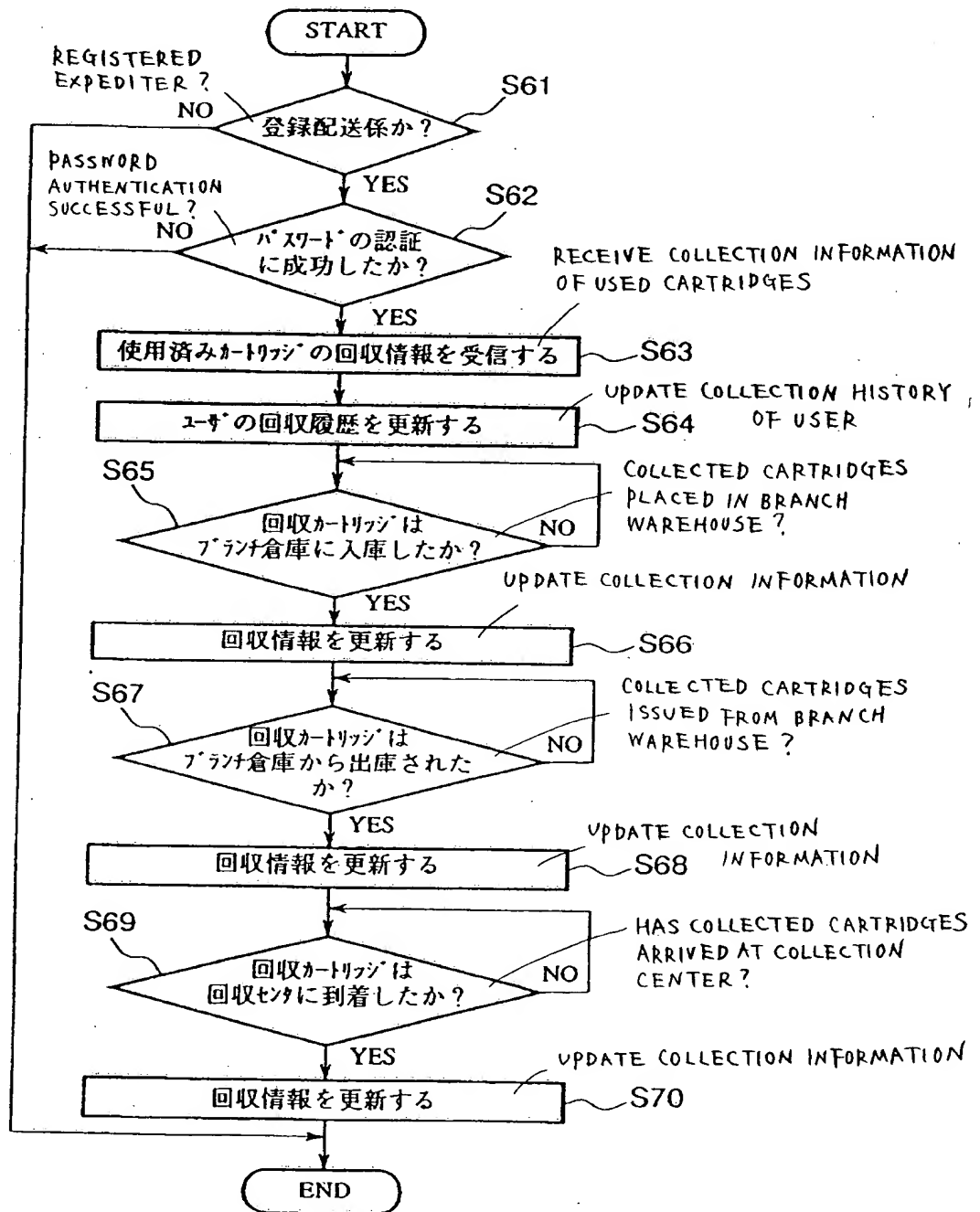
〔図10〕
Fig.10



【図1.1】
FIG. 11

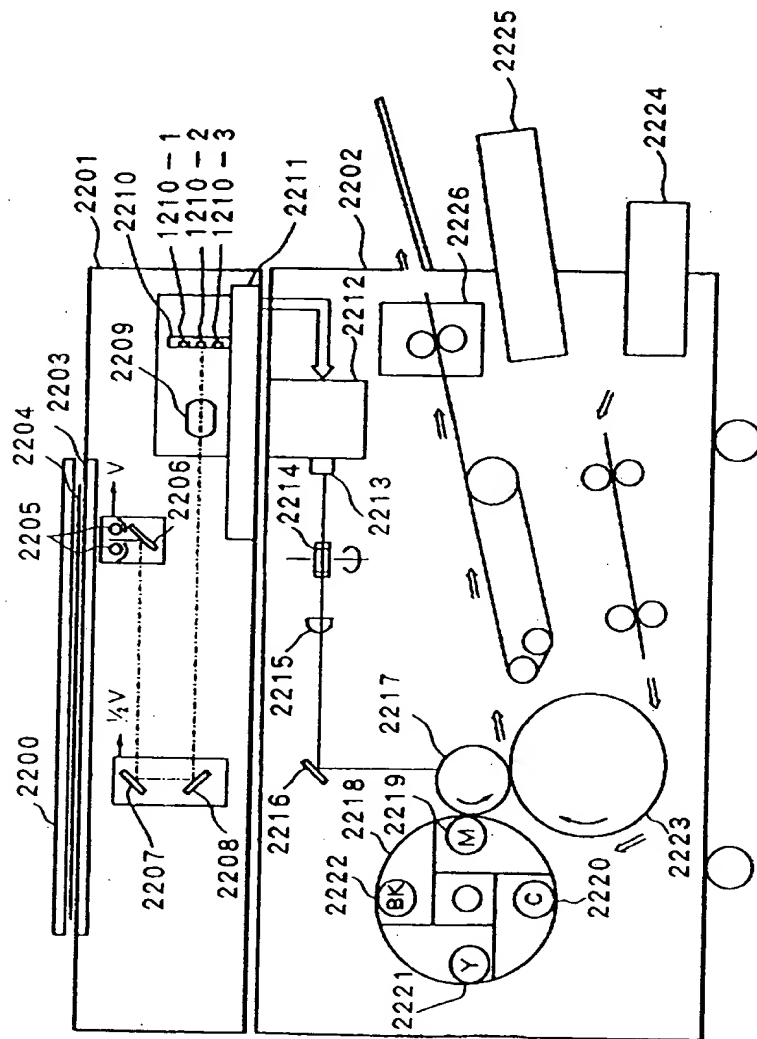


【図12】
FIG. 12



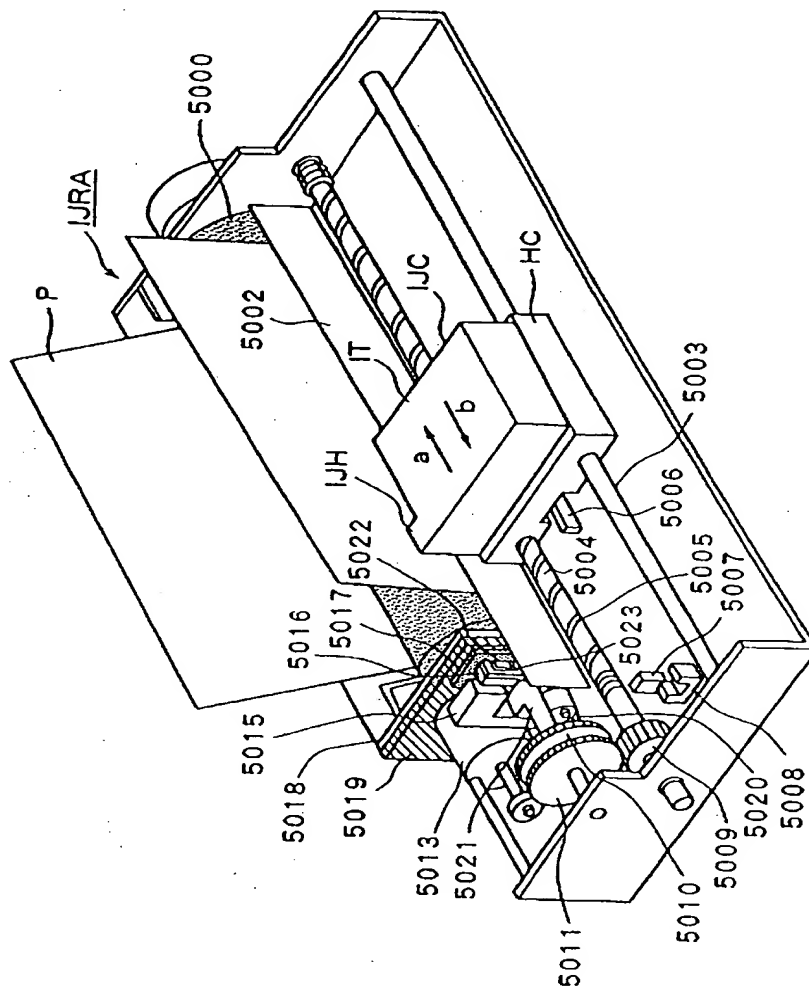
【図13】

FIG. 13



【図14】

Fig. 14



[Type of the Document] Abstract

[Abstract]

[Problem] Collection methods of toner cartridges involve stores or manufacturers dispatching recovery
5 vehicles, users taking toner cartridges to stores, or
users sending toner cartridges by packing them in
special boxes, but all these methods are troublesome
and costly.

[Solving Means] When an order is received from a user
10 4, toner cartridges are delivered from a branch
warehouse 6 to the user 4. At the time of delivery,
used toner cartridges are collected according to the
user's 4 wishes and placed temporarily in a branch
warehouse 6. Later, the used toner cartridges placed
15 in the branch warehouse 6 are sent to a collection
center 7 from the branch warehouse 6 at a designated
time and recycled there.

[Selected Drawing] Fig. 2